

VIDEO DATA COMPRESSION APPARATUS AND METHOD OF SAME

ABSTRACT OF THE DISCLOSURE

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A video data compression apparatus with which compressed video data of suitable amounts of data can be produced and in addition the time required for processing is short.

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An encoder control unit performs a preprocessing for compression and coding and, at the same time, produces a flatness and an intra AC as parameters indicating the difficulty of the pattern of pictures to be compressed to I pictures. A motion detector calculates a predictive

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error amount (ME residual) of the motion prediction. An FIFO memory delays each picture of the input video data.

A host computer approximates a real difficulty data D_j indicating the difficulty of the pattern of each picture by the ME residual, flatness, and intra AC and further

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calculates the target amount of data T_j of the compressed video data from the approximated real difficulty data D_j . The encoder performs the compression and coding so that the amount of data of the compressed video data becomes substantially the target amount of data T_j .